WHAT IS CLAIMED IS:

1		1.	A method for generating a luminosity compensated image, the method				
2	comprising:						
3		defining a luminosity texture having a plurality of luminosity texels;					
4		conv	erting pixel data for an underlying image to an image texture having a				
5	plurality of in	plurality of image texels;					
6		blending the image texture onto a target surface having a shape; and					
7		blending the luminosity texture onto the target surface, thereby generating					
8	luminosity compensated pixel data for the image.						
1		2.	The method of claim 1, wherein the target surface comprises a polygon				
2	having a plura	ng a plurality of vertices, at least one of the vertices being associated with one of the					
3	image texels of the image texture.						
1		3.	The method of claim 1, further comprising:				
2		provi	ding the luminosity compensated pixel data to a display device.				
1		4.	The method of claim 3, wherein providing the luminosity compensated				
2	pixel data to the display device includes:						
3		storin	g the luminosity compensated pixel data in a frame buffer; and				
4		subsequently scanning out the frame buffer data, thereby providing data to the					
5	display device	·.					
1		5.	The method of claim 1, wherein each luminosity texel includes a				
2	scaling factor.						
1		6.	The method of claim 5, wherein blending the luminosity texture onto				
2	the target surface includes:						
3		selecting one of the luminosity texels; and					
4		multiplying a pixel value from the target surface by the scaling factor of the					
5	selected luminosity texel.						
1		7.	The method of claim 5, wherein the scaling factors define a luminosity				
2	gradient to be applied across an area of the image.						
1		8.	The method of claim 1, further comprising:				

2 providing a user interface enabling a user to modify the shape of the target 3 surface. 1 9. The method of claim 8, wherein the act of defining the luminosity 2 texture includes automatically updating one or more of the luminosity texels in response to a 3 user modification of the shape of the target surface. 1 10. The method of claim 9, wherein automatically updating one or more of 2 the luminosity texels includes computing a luminosity scaling factor based on a distance to a 3 location on the target surface that maps to the texel. 1 11. The method of claim 10, wherein the distance is determined from a depth coordinate of the location on the target surface. 2 1 12. The method of claim 1, wherein the luminosity texture includes a low 2 luminosity region. 1 13. The method of claim 12, wherein the low luminosity region 2 corresponds to an overlap region in an image to be displayed using a plurality of display 3 devices configured to display overlapping image elements. 1 14. The method of claim 1, wherein the luminosity texture includes dark 2 texels for forming a visible pattern superimposed on the underlying image. 1 15. The method of claim 14, wherein the visible pattern corresponds to a 2 message readable by a user. 1 16. The method of claim 1, further comprising: 2 providing a user interface enabling a user to define the luminosity texture. 1 17. The method of claim 16, wherein the user interface further enables the 2 user to save the luminosity texture to a file. 1 18. The method of claim 17, wherein the user interface further enables the 2 user to select a previously saved luminosity texture file to be applied. 1 19. The method of claim 16, wherein the user interface further enables the 2 user to modify the luminosity texture.

1		20.	The method of claim 1, wherein each luminosity texel includes an		
2	independent sc	aling f	factor for each of a plurality of color components.		
1		21.	The method of claim 20, wherein the plurality of color components		
2	includes a red	compo	nent, a green component, and a blue component.		
1		22.	A graphics processing system comprising:		
2		a textu	re generation module configured to convert pixel data for an underlying		
3	image to an image texture having a plurality of image texels;				
4	a texture memory configured to store the underlying image texture and a				
5	luminosity texture having a plurality of luminosity texels; and				
6	:	a multi	istage texture blending module configured to blend each of the image		
7	texture and the luminosity texture onto a target surface having a shape, thereby generating				
8	luminosity-compensated pixel data for an image.				
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1		23.	The graphics processing system of claim 22, wherein the target surface		
2	comprises a polygon having a plurality of vertices, at least one of the vertices being				
3	associated with	a texti	ure coordinate of the image texture.		
1	2	24.	The graphics processing system of claim 22, further comprising a		
2	frame buffer co	nfigur	ed to store the luminosity-compensated pixel data.		
			, 1 F unum		
1	2	25.	The graphics processing system of claim 22, further comprising		
2	scanout control logic configured to provide the luminosity-compensated pixel data to a				
3	display device.				
1	2	26.	The graphics processing system of claim 22, wherein each luminosity		
2	texel includes a		·		
-	tonor morades u	Scaring	s lactor.		
1	2	27.	The graphics processing system of claim 22, further comprising:		
2	а	user i	nterface module configured to enable a user to modify the shape of the		
3	target surface.				
1	2	28.	The graphics processing system of claim 27, further comprising a		
2	luminosity comp		on module configured to automatically update the luminosity texture		

4	surface.					
1	29. The graphics processing system of claim 28, wherein the					
2	luminositycompensation module is further configured to compute an updated value for a texel					
3	of the luminosity texture based on a distance to a location on the target surface that maps to					
4	the texel.					
1	30. The graphics processing system of claim 29, wherein the distance is					
2	determined from a depth coordinate of the location on the target surface.					
1	31. The graphics processing system of claim 22, wherein the luminosity					
2	texture includes a low luminosity region.					
1	32. The graphics processing system of claim 31, wherein the low					
2	luminosity region corresponds to an overlap region in an image to be displayed using a					
3	plurality of display devices configured to display overlapping image elements.					
1	33. The graphics processing system of claim 22, wherein the luminosity					
2	texture includes darkened texels forming a visible pattern.					
1	34. The graphics processing system of claim 33, wherein the pattern					
2	corresponds to a message readable by a user.					
1	35. The graphics processing system of claim 22, further comprising a user					
2	interface module configured to enable a user to define the luminosity texture.					
1	36. A computer program product comprising:					
2	a computer readable medium encoded with program code, the program code					
3	including:					
4	program code for defining a luminosity texture that includes a scaling					
5	factor for each of a plurality of luminosity texels;					
6	program code for converting pixel color values of an underlying image					
7	to an image texture having a plurality of image texels;					
8	program code for blending the image texture onto a surface having a					
9	shape; and					

10 program code for blending the luminosity texture onto the target 11 surface, thereby generating luminosity compensated pixel data for the image. 1 37. The computer program product of claim 36, wherein the computer 2 readable medium comprises a magnetic storage medium encoded with the program code. 1 38. The computer program product of claim 36, wherein the computer 2 readable medium comprises an optical storage medium encoded with the program code. 1 39. The computer program product of claim 36, wherein the computer 2 readable medium comprises a carrier signal encoded with the program code and adapted for 3 transmission via a network. 1 40. The computer program product of claim 36, wherein the program code 2 further includes program code for providing a user interface enabling a user to define the 3 luminosity texture. 1 41. The computer program product of claim 36, wherein the program code 2 further includes program code for providing a user interface enabling a user to modify the 3 shape of the target surface. 1 42. The computer program product of claim 41, wherein the program code 2 further includes program code for updating the scaling factor for each luminosity texel based 3 on the modified shape of the target surface.